

PATENT CLAIMS

What is claimed:

1. An electronic child location system, comprising:
 - a plurality of child unit watches having a code setter, a code generator, transceiver and an antenna;
 - a parent unit watch having an antenna, a transceiver, plural code detectors, plural distance and direction detectors, a setting controller, a logic circuit, an audio alarm generator, a visual indicator, and a speaker element;
 - each of said child unit watches code setters programming unique codes for each said child unit watch coupled to said code generator for generating said codes and further coupled to said child transceiver for generating a radio transmission signal and further coupled to said child antenna for transmitting said radio transmission signal;
 - said parent unit watch antenna receiving said radio transmission signal from each of said child unit watches and coupled to said parent transceiver for demodulating said child radio transmission signal, and further coupled to said plural code detectors for detecting said child codes and further coupled to said plural distance and direction detectors for detecting programmable signal strengths outside of a range of values based on inputs from said setting controller, each of said plural distance and direction detectors coupled to inputs of said logic circuit for detecting if any one or any two or all three of outputs of said plural distance and direction detectors indicates signal strength that is out of range, said logic circuit reporting the direction from which each said child radio transmission originated, and further

coupled to said audio alarm or vibration generator for generating an audio alarm output to said speaker element.

2. The electronic child location system of claim 1 further comprising panic buttons on said parent unit and on each of said child units which will produce an alarm sound or vibration on said parent unit if any of said child unit panic buttons is pressed on a child unit and said panic button on said parent unit will produce an alarm on all child units if said parent panic button is pressed on said parent unit.
3. The electronic child location system of claim 1 wherein the cases of said child units are tamper resistant.
4. The electronic child location system of claim 1 wherein the band of said child units are cut-proof and contain a locking mechanism for lockably connecting the first end of said band to the second end of said band.